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FIG. 1

OSM-PCLA-PEG-PCLA-OSM (PEG/PCLA:1/1.8)

PCLA-PEG-PCLA(PEG/PCLA:1/1.8)

PEG(1500)

GPC (elution solvent:THF)

FIG. 2

$$\dfrac{2y \times 2}{4(x-2)+4+4} = \dfrac{B}{D+D'+I}$$
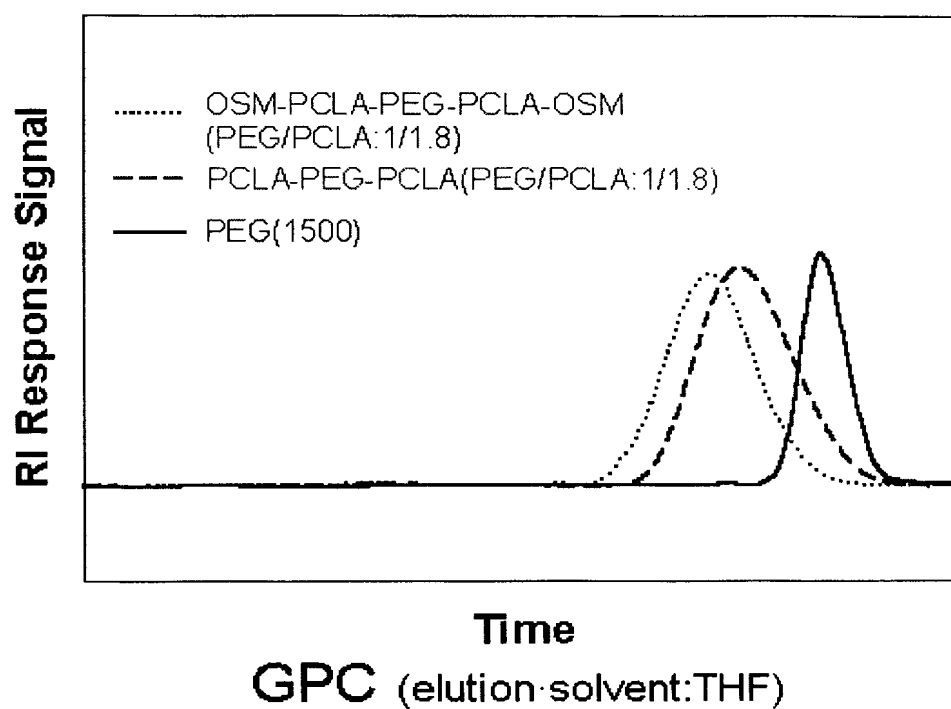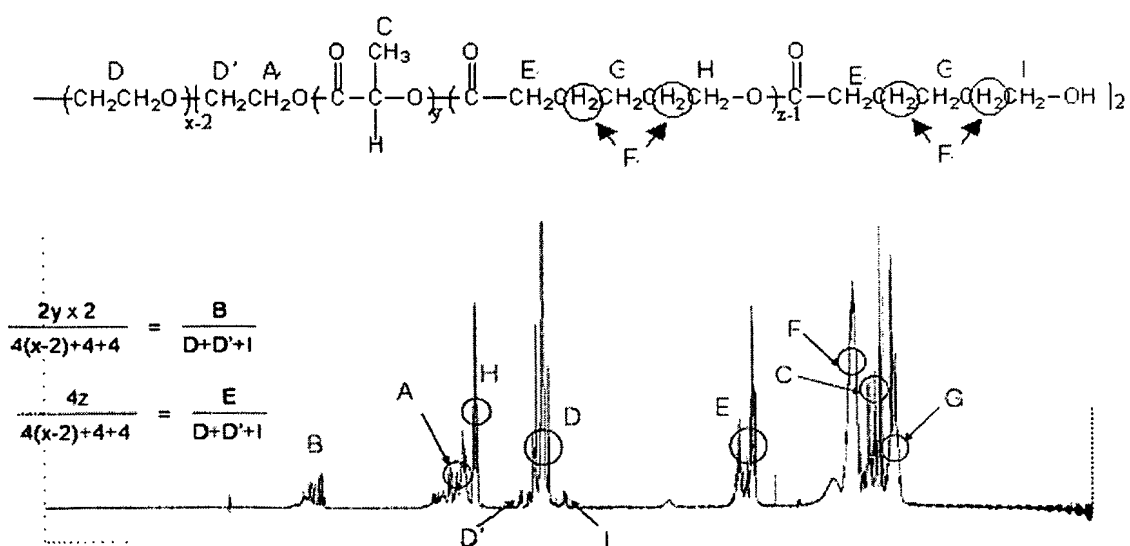
$$\dfrac{4z}{4(x-2)+4+4} = \dfrac{E}{D+D'+I}$$

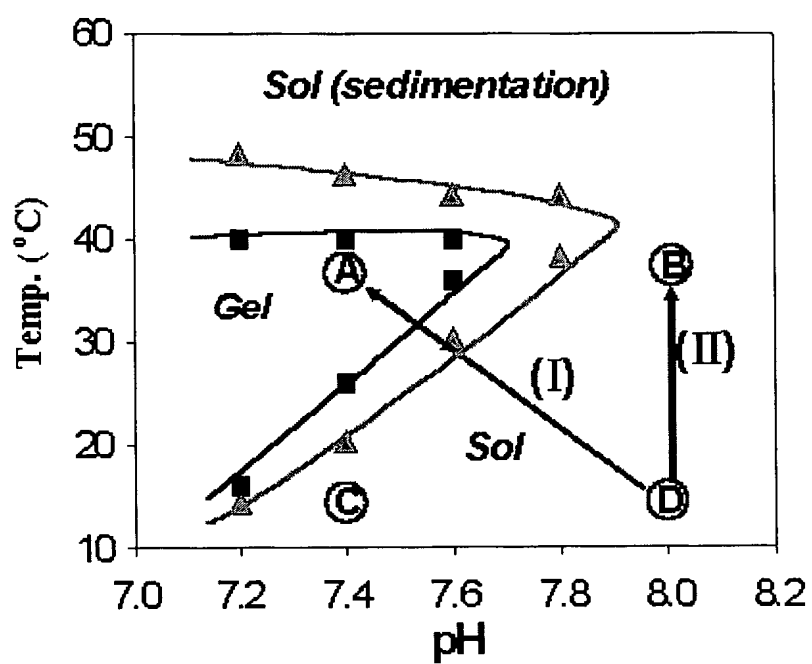## FIG. 3

**OSM-PCLA-PEG-PCLA-OSM
(OSM Mn = 1144)**

■ : PEG/PCLA=1/1.85, CL/LA=2.44/1

▲ : PEG/PCLA=1/2.08, CL/LA=2.59/1

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FIG. 4

pH 7.4 ←——————→ pH 8.0

OSM-PCLA-PEG-PCLA-OSM

: non-ionized sulfamethazine oligomer at low pH

: ionized sulfamethazine oligomer at high pH

—— : hydrophobic PCLA at high temperature

···· : hydrophilic PCLA at low temperature

FIG. 5

Injection   **Shaking**

pH 7.4   pH 8.0   pH 7.4   pH 8.0
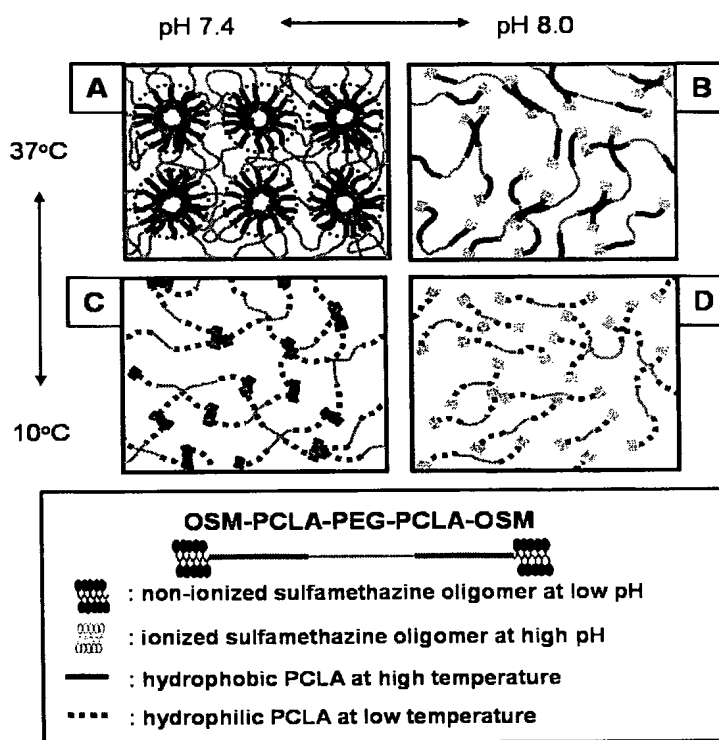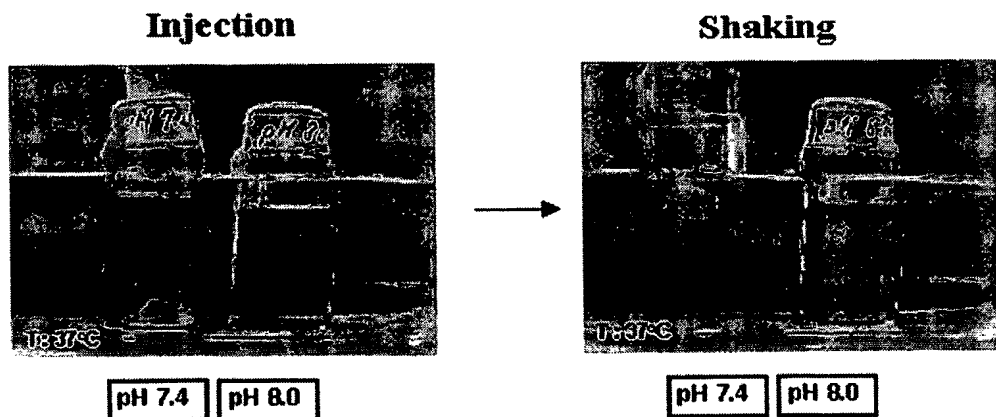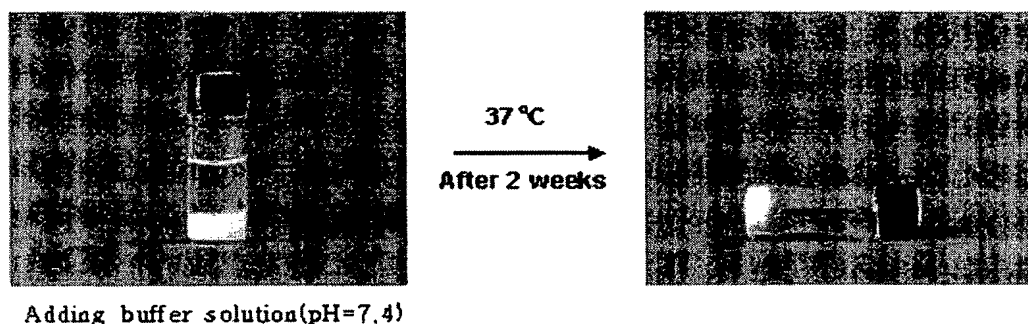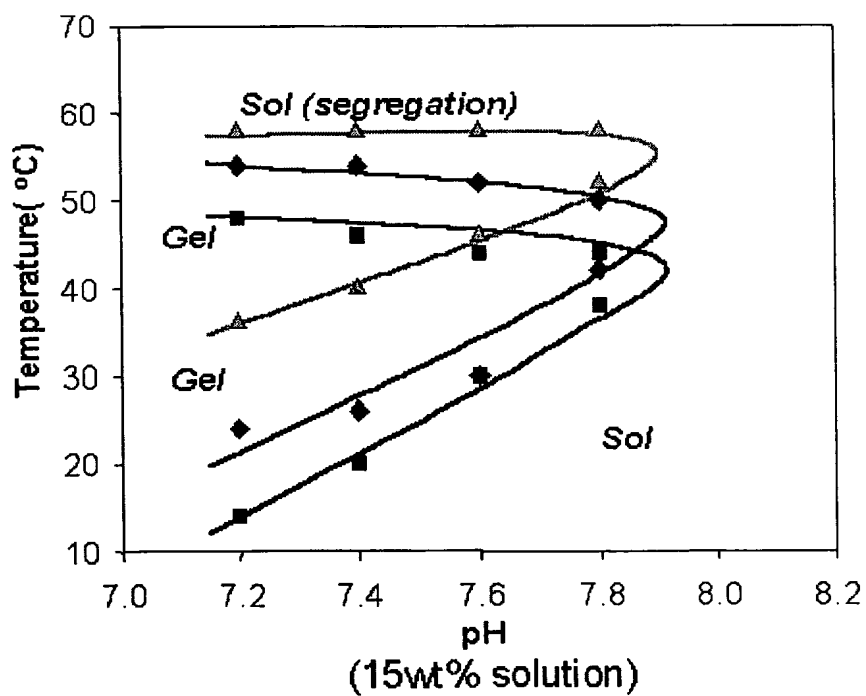
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FIG. 6

Adding buffer solution(pH=7.4)

FIG. 7

OSM-PCLA-PEG-PCLA-OSM
(PEG/PCLA=1/2.1, OSM Mn=1144)

■ : PEG=1500   ◆ : PEG=1750   ▲ : PEG=2000

pH
(15wt% solution)

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FIG. 8

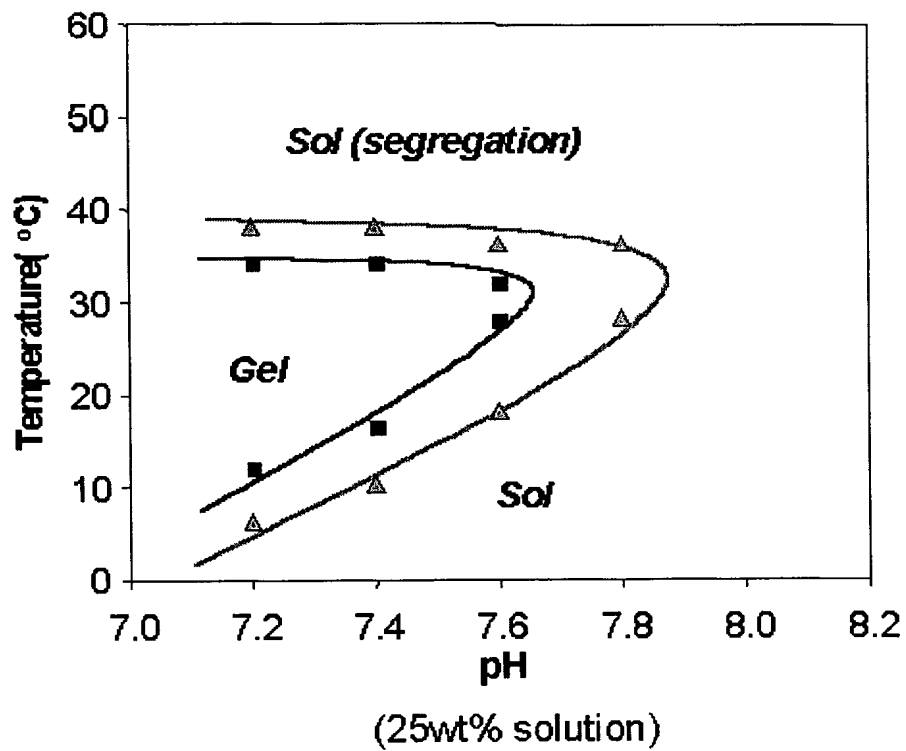OSM-PCLA-PEG-PCLA-OSM
(PEG=1500, PEG/PCLA=1/2.08)

● : OSM (Mn=937)

▲ : OSM (Mn=1144)

(15wt% solution)
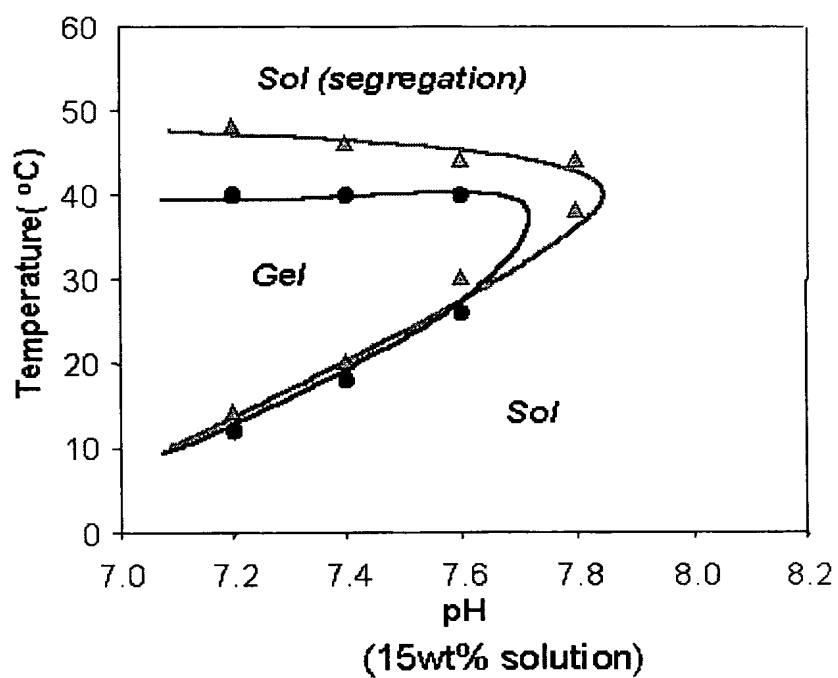
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FIG. 9

MPEG-PCLA-OSM
(MPEG=750, OSM=1144)

■ : MPEG/PCLA=1/1.86, CL/LA=2.67/1
▲ : MPEG/PCLA=1/2.04, CL/LA=2.70/1

(25wt% solution)

FIG. 10

OSM-PCGA-PEG-PCGA-OSM
(PEG=1500, OSM=1144)

■ : PEG/PCGA=1/2.02, CL/GA=2.38/1

▲ : PEG/PCGA=1/2.23, CL/GA=2.39/1

(15wt% solution)